METHOD AND APPARATUS FOR CONSTRUCTING AN EXECUTABLE PROGRAM IN MEMORY

Abstract Of The Invention

A method and apparatus for constructing an executable program, such as drivers in memory, obtains system configuration parameters and dynamically constructs driver code bundles from a set of code modules obtained from a library, based on the actual system configuration parameters. The set of code modules includes code modules associated with a plurality of system configuration parameters. One example of the system configuration parameter include static system configuration parameters such as in the case of a computer, a CPU type, clock speed and system memory size. Other actual system configuration parameters include dynamic configuration parameters which can be changed by the user. One example of a dynamic configuration parameter may be, for example, pixel depth and display screen resolution. After obtaining optimal system configuration depending upon a system's setting or configurations, dedicated code modules are used and stored in system memory or other suitable memory. Accordingly, optimal driver code is loaded at all times for a particular chip set and no unnecessary code is loaded from a CD ROM or other source.